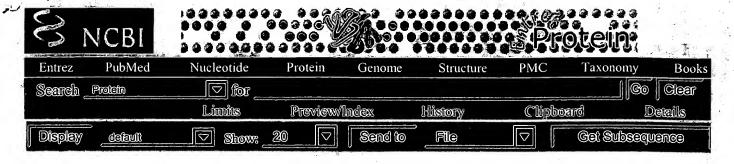


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pSecTag2 A, B, & C		1			
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Description			Catalog No.	Size	
pSecTag2 and pSecTag2/Hygro are mammalian express the secretion, purification, and detection of fusion proteilarge multiple cloning site in three reading frames to sim with the N-terminal secretion signal. The vectors (Figure features:	ins. Each vector halfing in f	nas a frame	V90020	20 µg ea.	
 Secretion signal from the V-12-C region of the for efficient secretion of recombinant proteins 		- chain			
 Cytomegalovirus (CMV) promoter for high-lev expression 	vel constitutive				
 C-terminal polyhistidine (6xHis) tag for rapid proBond TM resin and detection with an Anti-H 		ody			
■ C-terminal c-myc epitope for detection with an	·				
 Bovine growth hormone (BGH) polyadenylation termination sequence to enhance mRNA stabil 		scription			
 SV40 origin for episomal replication and simp lines expressing the large T antigen (e.g. COS- 		n cell			•
The pSecTag2 vectors carry the Zeocin TM resistance gen					•
selection in mammalian cells. Zeocin selection can als	so be used in E. c	coli.			•
The pSecTag2/Hygro vectors have the hygromycin-B re selection of stable mammalian cell lines.	sistance gene for				
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Full Product Description(s) NOTE: Multiple links in View Full Description	ndicate Product, I	Related Product or C	omponent Descript	ions.	TO THE PERSON NAMED AND PARTY OF THE PERSON NAMED AND ADDRESS OF THE PERSON NAMED AND ADDRESS OF THE PERSON NA
Fechnical Information			1 - 2 of 2		
Description				Grand Company on April 1990	The state of the
pSecTag2 A, B, and C			Manual		-
pSecTag A (replaced with pSecTag2)			Vector .		



1: <u>NP_002765</u>. kallikrein 6 prep...[gi:4506155]

BLink, Domains, Links

LOCUS NP 002765 PRI 04-OCT-2003 linear kallikrein 6 preproprotein; protease M; protease, serine, 9; DEFINITION neurosin; zyme [Homo sapiens]. ACCESSION NP 002765 VERSION NP 002765.1 GI:4506155 DBSOURCE REFSEQ: accession NM 002774.2 KEYWORDS SOURCE Homo sapiens (human) ORGANISM Homo sapiens Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. REFERENCE 1 (residues 1 to 244) **AUTHORS** Magklara, A., Mellati, A.A., Wasney, G.A., Little, S.P., Sotiropoulou, G., Becker, G.W. and Diamandis, E.P. TITLE Characterization of the enzymatic activity of human kallikrein 6: Autoactivation, substrate specificity, and regulation by inhibitors JOURNAL Biochem. Biophys. Res. Commun. 307 (4), 948-955 (2003) 22760274 MEDLINE 12878203 PUBMED REMARK GeneRIF: Characterization of the enzymatic activity of kallikrein REFERENCE 2 (residues 1 to 244) **AUTHORS** Mitsui, S., Okui, A., Uemura, H., Mizuno, T., Yamada, T., Yamamura, Y. and Yamaguchi, N. TITLE Decreased cerebrospinal fluid levels of neurosin (KLK6), an aging-related protease, as a possible new risk factor for Alzheimer's disease **JOURNAL** Ann. N. Y. Acad. Sci. 977, 216-223 (2002) MEDLINE 22367930 PUBMED 12480753 GeneRIF: Decreased cerebrospinal fluid levels may be a posssible REMARK risk factor for Alzheimer's disease REFERENCE (residues 1 to 244) **AUTHORS** Hoffman, B.R., Katsaros, D., Scorilas, A., Diamandis, P., Fracchioli, S., Rigault de la Longrais, I.A., Colgan, T., Puopolo, M., Giardina, G., Massobrio, M. and Diamandis, E.P. TITLE Immunofluorometric quantitation and histochemical localisation of kallikrein 6 protein in ovarian cancer tissue: a new independent unfavourable prognostic biomarker **JOURNAL** Br. J. Cancer 87 (7), 763-771 (2002) MEDLINE 22217262 PUBMED 12232761 REMARK GeneRIF: Immunofluorometric quantitation and histochemical localisation of kallikrein 6 protein in ovarian cancer tissue: a new independent unfavourable prognostic biomarker. REFERENCE (residues 1 to 244) AUTHORS Gomis-Ruth, F.X., Bayes, A., Sotiropoulou, G., Pampalakis, G., Tsetsenis, T., Villegas, V., Aviles, F.X. and Coll, M. TITLE The structure of human prokallikrein 6 reveals a novel activation mechanism for the kallikrein family JOURNAL J. Biol. Chem. 277 (30), 27273-27281 (2002)

```
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 MEDLINE
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            GeneRIF: X-ray crystallographic structure of KLK6.
               (residues 1 to 244)
REFERENCE
  AUTHORS
            Bernett, M.J., Blaber, S.I., Scarisbrick, I.A., Dhanarajan, P.,
            Thompson, S.M. and Blaber, M.
            Crystal structure and biochemical characterization of human
  TITLE
            kallikrein 6 reveals that a trypsin-like kallikrein is expressed in
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            GeneRIF: characterization of human kallikrein 6 as a degradative
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            Scarisbrick, I.A., Blaber, S.I., Lucchinetti, C.F., Genain, C.P.,
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            Blaber, M. and Rodriguez, M.
            Activity of a newly identified serine protease in CNS demyelination
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            in the adult central nervous system (CNS), is present in
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            Zarghooni, M., Soosaipillai, A., Grass, L., Scorilas, A., Mirazimi, N.
            and Diamandis, E.P.
  TITLE
            Decreased concentration of human kallikrein 6 in brain extracts of
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            GeneRIF: Decreased concentration of human kallikrein 6 in brain
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            Gan,L., Lee,I., Smith,R., Argonza-Barrett,R., Lei,H., McCuaig,J.,
            Moss, P., Paeper, B. and Wang, K.
  TITLE
            Sequencing and expression analysis of the serine protease gene
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  JOURNAL
            Gene 257 (1), 119-130 (2000)
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REFERENCE
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 AUTHORS
            Yousef, G.M., Luo, L.Y., Scherer, S.W., Sotiropoulou, G. and
            Diamandis, E.P.
  TITLE
            Molecular characterization of zyme/protease M/neurosin (PRSS9), a
            hormonally regulated kallikrein-like serine protease
  JOURNAL
            Genomics 62 (2), 251-259 (1999)
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REFERENCE
            10 (residues 1 to 244)
  AUTHORS
            Little, S.P., Dixon, E.P., Norris, F., Buckley, W., Becker, G.W.,
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            Hepburn,D., Corvalan,J., McClure,D., Liu,X., Stephenson,D.,
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  TITLE
            Zyme, a novel and potentially amyloidogenic enzyme cDNA isolated
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  JOURNAL
            J. Biol. Chem. 272 (40), 25135-25142 (1997)
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REFERENCE
            11 (residues 1 to 244)
  AUTHORS
            Yamashiro, K., Tsuruoka, N., Kodama, S., Tsujimoto, M., Yamamura, Y.,
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```
TITLE
            Molecular cloning of a novel trypsin-like serine protease
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            Biochim. Biophys. Acta 1350 (1), 11-14 (1997)
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REFERENCE
            12 (residues 1 to 244)
  AUTHORS
            Anisowicz, A., Sotiropoulou, G., Stenman, G., Mok, S.C. and Sager, R.
  TITLE
            A novel protease homolog differentially expressed in breast and
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            diverse physiological functions. Growing evidence suggests that
            many kallikreins are implicated in carcinogenesis and some have
            potential as novel cancer and other disease biomarkers. This gene
            is one of the fifteen kallikrein subfamily members located in a
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            steroid hormones. In tissue culture, the enzyme has been found to
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